

NOvA Experiment Status

All Experimenter's Meeting

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Operations – Summary



☐ BEAM:

- Scheduled shut down on Wed used for the maintenance.

☐ NearDet:

- Only small issues with short downtimes
- Several swaps of the electronic performed, including 5 new APDs without primer.

☐ FarDet:

- During the maintenance found another **10 APDs** with **brass**, all replaced. Replaced other 5 non-cooling APDs.
- Over-temperature accident in the Computer room killed data taking for 10 hours
- Tremendous effort by Ash crew kept FD up and running during 4 days when common A/C was not available.

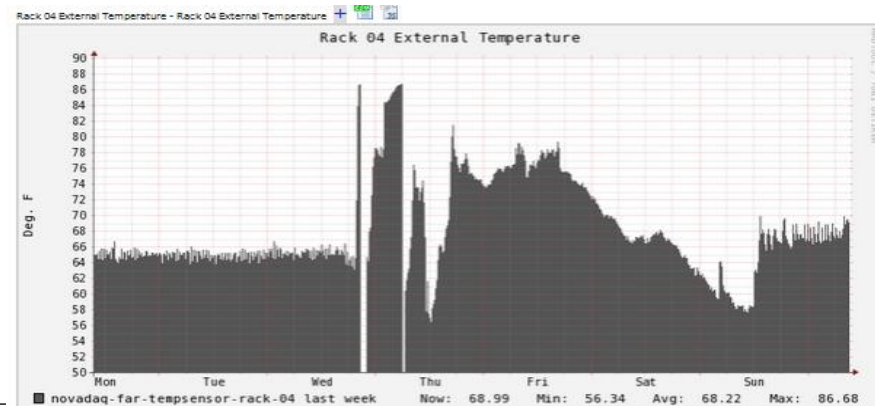
☐ Control Room(s): ok

Operations – Over temperature issue

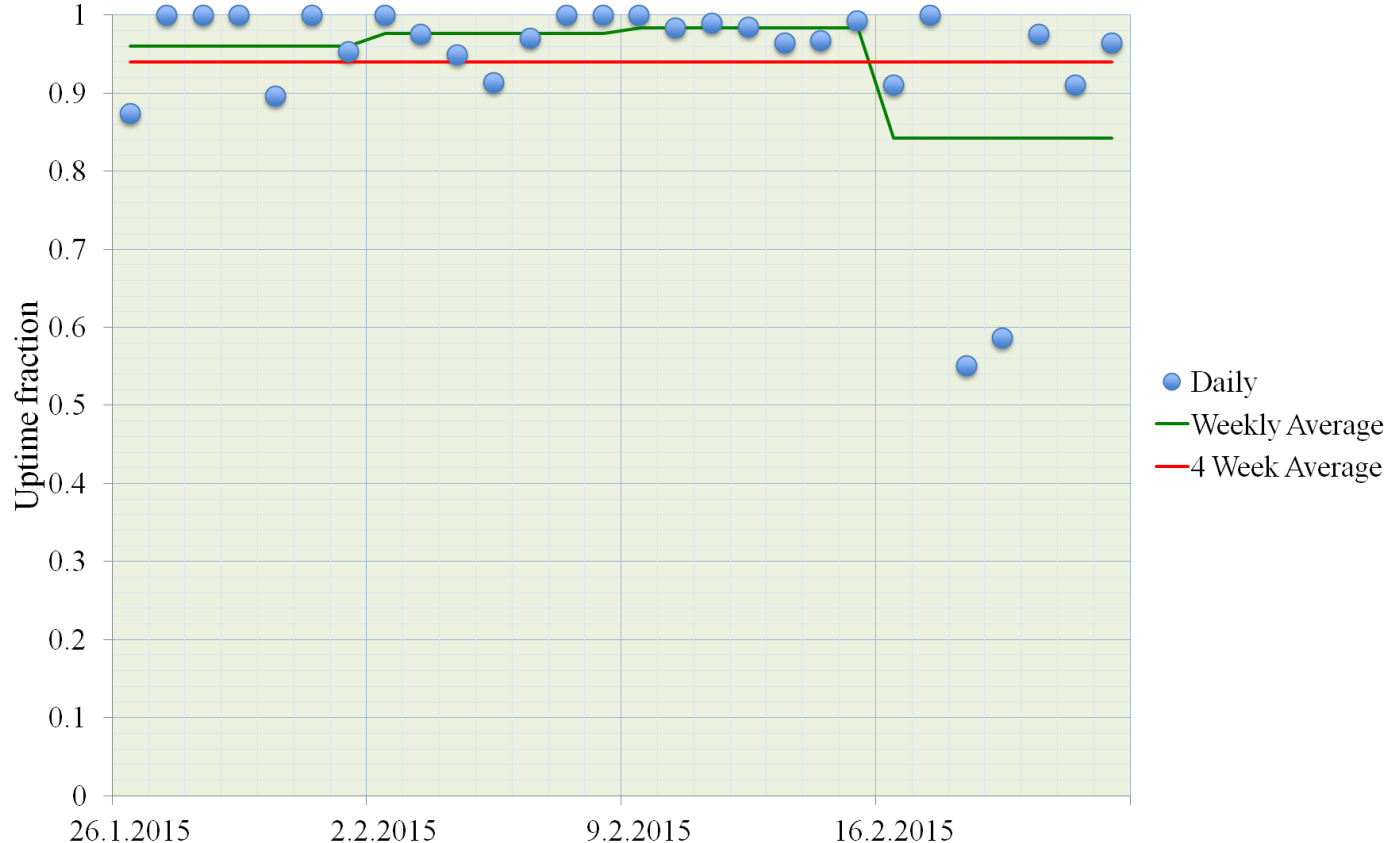


❑ Computer room at Ash River Thu evening through Sun:

- Using HVAC system to cool all computers (>200) at FarDet.
- Roof glycol circulating pump stopped working and damaged.
- Load-shed safety script automatically detecting the rack temperatures shut down (in importance order) computers.
- Started on Thu, 8pm. Temperature steeply raised and killed data taking, emergency Ash River called and found stopped pump on the roof, restarted installed additional fans, nevertheless the pump crashed again at 2am avoiding data for rest of night.
- Contractors provided new pump and scheduled repair on Sun.
- **Big effort done to blow cold air in and hot out for 24/7 at AR.**
- Since Sun we are back.
- **Lost only 10 hours of beam!**

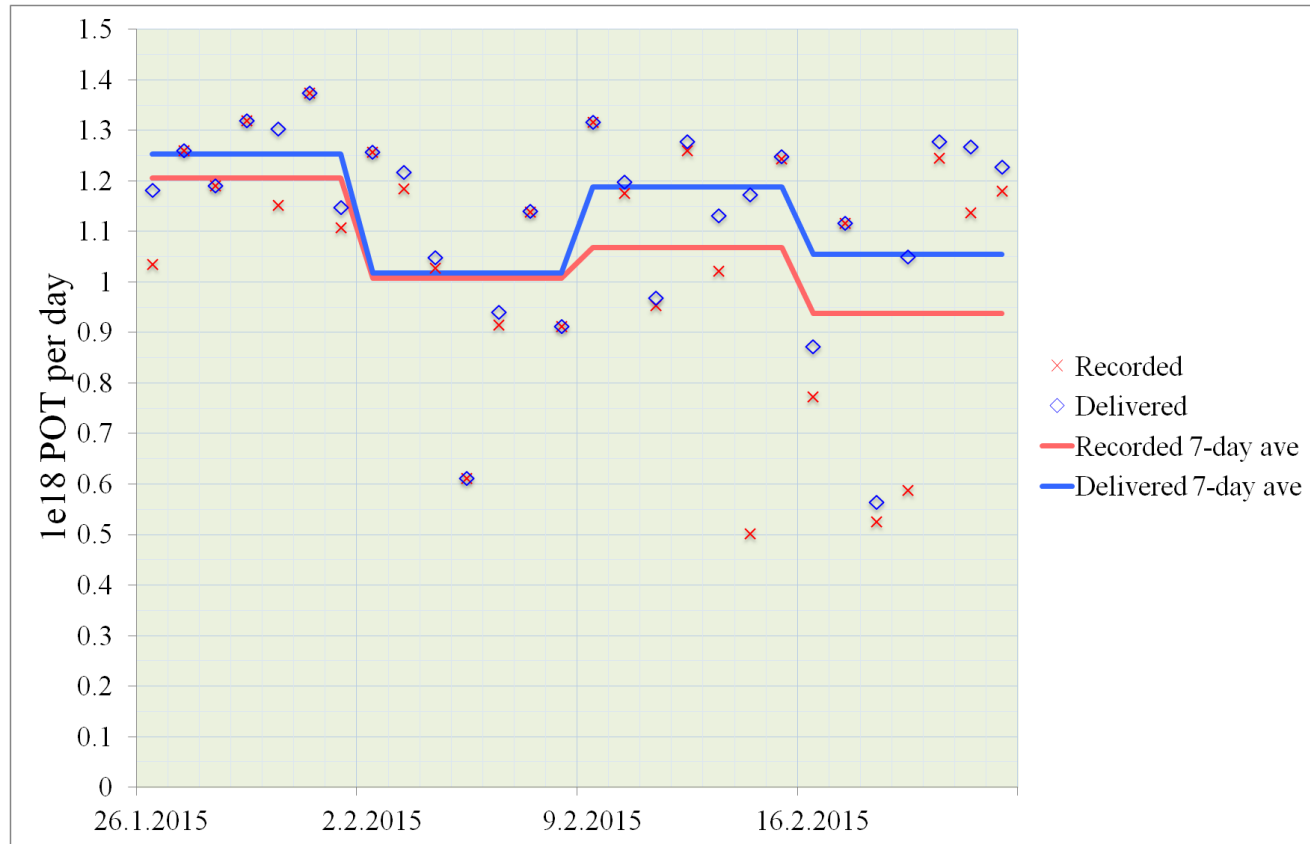


FD: Data taking Uptime



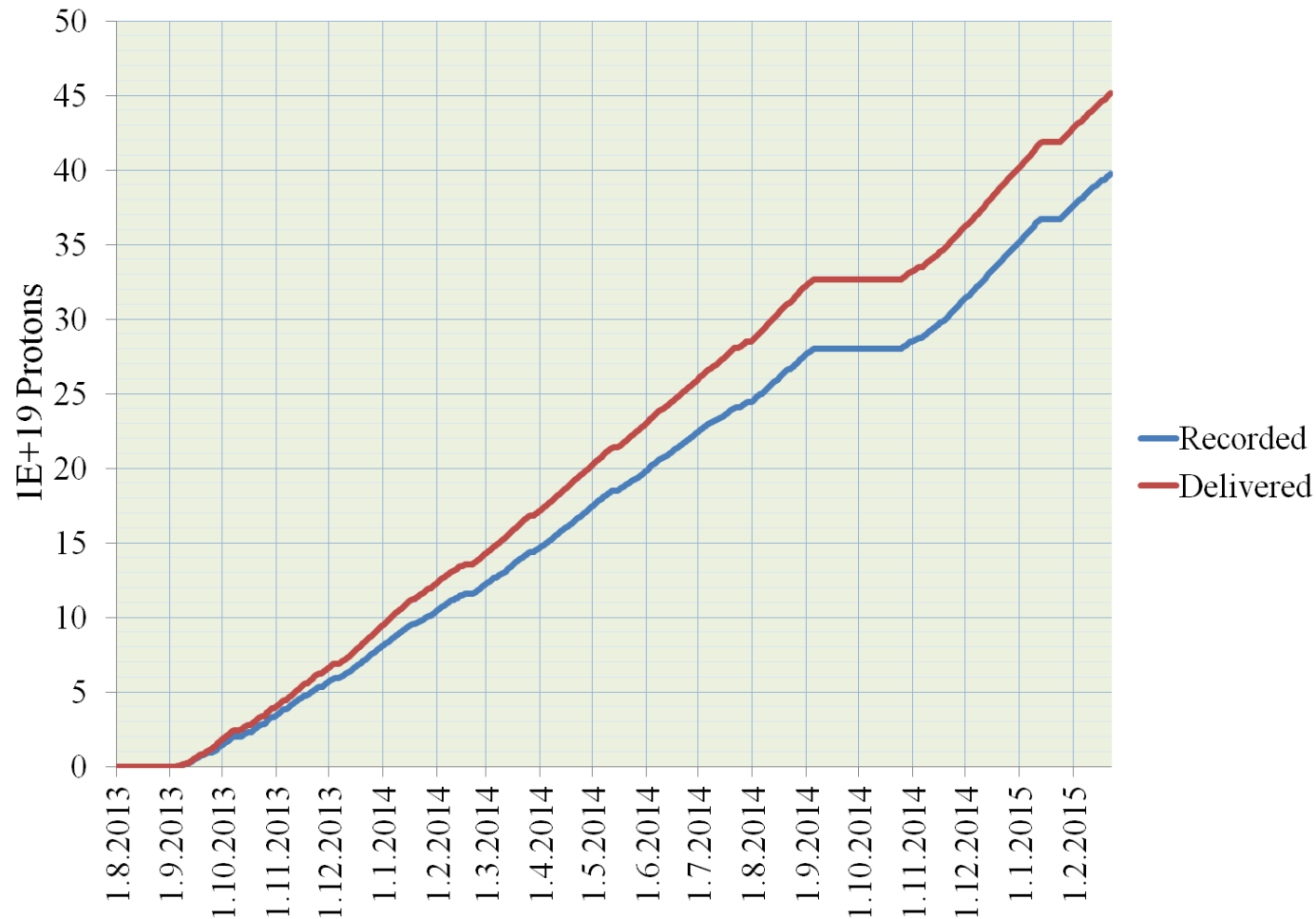
- Last week running uptimes down to 84.3%, in total of 16 hours.
- 10 hours - maintenance day (Wed) when beam down, replacing electronics and searching for the remaining bras fitting.
- 10 hours – the over-temperature accident killed detector data taking
- 6 hours – “common” issues, almost all are known and looking to solve them.

FD: POTs delivered/recorded



- Past week efficiency was only 89%, (6.56 of 7.38 $e18$ POTs).
- More than 6% of 11% lost due to the over-temperature accident happened on Thu/Fri.
- The remaining part correspond to the several short DAQ down times (Mon, Sat).
- The standard maintenance of FarDet completely done on Wed when beam down.

FD: Accumulated POTs



➤ 2013/14: 280/326 e18 POTs (86%) + 2014/15: 117.6/125.2 e18 POTs (94.0%)